

NORTHWEST LABORATORIES

of Seattle, Incorporated

ESTABLISHED 1896

Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry



1530 FIRST AVENUE SOUTH

SEATTLE, WASHINGTON 98134

Telephone: (206) 622-0680

Report To: Alaskan Copper Works
Attention: Jim Brown

Date: December 22, 1988

Report On: Waste Water

Lab No.: E 45898
REVISED: January 5, 1989

SUBMITTED:

Five (5) Samples Metro Waste Water Discharge for Chemical Analysis

IDENTIFICATION:

#1 - ID - 12-5A - 3200 M 8190
#2 - ID - 12-5B - 3200 M 8190
#3 - ID - 12-5C - 3200 M 8190
#4 - ID - 12-5D - 3200 M 8190
#5 - ID - 12-6D - 3200 M 8190

TEST PROCEDURE:

Samples were digested with aqua regia (3:1 conc. HCl: HNO₃) until the volume was reduced to 25 ml and then analyzed by Atomic Absorption Spectrophotometer

ANALYSIS:

<u>Element</u>	<u>Sample #1</u>	<u>Sample #2</u>	<u>Sample #3</u>	<u>Sample #4</u>	<u>Sample #5</u>
Copper, Cu, ppm	2.6	6.8	11.0	5.5	5.7
Nickel, Ni, ppm	2.7	7.9	11.2	4.8	6.4
Chromium, Cr, ppm	4.3	12.0	18.4	7.2	9.9
Zinc, Zn, ppm	0.6	1.6	2.0	1.2	1.3

NORTHWEST LABORATORIES

Sam LeBarron
Director, Analytical Laboratory

wbm

AKC-0014854

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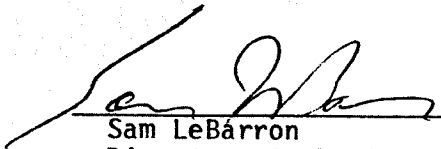
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